

WHAT IS CLAIMED IS:

1. A ring laser gyro comprising two or more ring lasers, said ring lasers being optically independent of each other, wherein:

5 a change in beat frequency with respect to a change in angular velocity of a first ring laser is opposite to that of a second ring laser; and

angular velocity of rotation of said gyro is detected by a signal representing a difference between
10 a first beat frequency generated by said first ring laser and a second beat frequency generated by said second ring laser.

2. A ring laser gyro according to claim 1,
15 wherein said beat frequency generated by said first ring laser and said beat frequency generated by said second ring laser in a static state are equal to each other, and the rate of said change in said beat frequency with respect to said change in said angular
20 velocity of said first ring laser is equal to that of said second ring laser.

3. A ring laser gyro according to claim 1,
wherein, when angular velocity in a direction is
25 increased, frequency of an impedance change with respect to said first ring laser is decreased, while frequency of an impedance change with respect to said

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8. A ring laser gyro according to claim 7,
5 wherein said planes in parallel with each other are one
plane.

10. A ring laser gyro according to claim 1,
15 wherein said planes nonperpendicular to each other,
said planes in parallel with each other, or said one
plane are/is other than surfaces/a surface of
semiconductor substrates/a semiconductor substrate.

said semiconductor ring laser gyro comprises an absorber or a light-shield for preventing optical coupling between said two ring lasers; and

25 said absorber or said light-shield does not return
reflected light to said ring lasers.

average.

17. A method of processing a signal from a ring
laser gyro according to claim 16, wherein said weight
5 corresponds to a ratio of said beat frequencies in said
static state in said ring lasers.

18. A method of processing a signal from a ring
laser gyro according to claim 16, wherein a ring laser
10 gyro according to claim 1 is driven, said calculating
processing is carried out based on said frequencies of
said impedance change in said respective semiconductor
ring lasers, and drive conditions are controlled using
the result of said calculating processing.

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19. A method of processing a signal from a ring
laser gyro according to claim 18, wherein said
calculating processing is addition or weighted average.

20. A method of processing a signal from a ring
laser gyro according to claim 19, wherein said weight
20 in said weighted average corresponds to a ratio of
length of a revolution of said ring resonator to area
surrounded by said ring resonator between said
25 respective ring resonators.

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